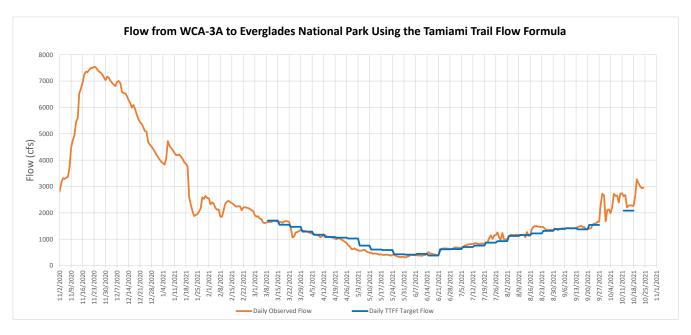
Tamiami Trail Flow Formula (TTFF) - Target Flow from WCA-3A to ENP

Daily Target Flow for 10/26/2021 to 11/1/2021 MAX cfs		,		0				_
Station	Daily Target Flow for			10/26/2021	to	11/1/2021	MAX	cfs
Station	Observed Stage Data							
NESRS2	_	<u>Variable</u>			on	10/22/2021	<u>Value</u>	<u>Unit</u>
New Note No	, ,	Average Daily Stage					10.46	ft-NGVD29
Station		· ·						
Station	Regulatory Stage WCA-3A	Average Daily Stage					10.44	ft-NGVD29
S-12A	Observed Flow Data							
S-12B	<u>Station</u>	<u>Variable</u>	From	10/16/2021	to	10/22/2021	<u>Value</u>	<u>Unit</u>
S-12C	S-12A	7-day Average Daily Flow					0	cfs
S-12D	S-12B	7-day Average Daily Flow					0	cfs
S-333 7-day Average Daily Flow 253 cfs		, , ,						
S-333N		, , ,						
7-day Average Daily Flow 0 cfs 5-12s Total 7-day Average Daily Flow 2147 cfs 5-12s Total 7-day Average Daily Flow 549 cfs 5-333 + S333N - S334¹ 7-day Average Daily Flow 549 cfs Total Flow to ENP 7-day Average Daily Flow 549 cfs Total Flow to ENP 7-day Average Daily Flow 549 cfs Meteorological Data Forecasted From 10/23/2021 to 10/29/2021 Value Unit WCA3 7-day Quantitative Precipitation Forecast (QPF) 1.28 in 3AS3WX - 7-day Total Forecasted PET 1.00 in Observed From 10/16/2021 to 10/22/2021 Value Unit WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET 1.00 in TTFF Application 1 Previous week target flow (calculated with forecasted 7-day QPF and PET) MAX cfs 2 Previous week target flow (recalculated with observed rainfall and PET) MAX cfs 3 Adjustment for forecast (2-1) MAX cfs 4 This week calculated target flow 5 This week target flow with adjustment (3 + 4) MAX cfs								
S-12s Total		, , ,						
S333 + S333N - S334¹ 7-day Average Daily Flow 7-day Average Daily Flow 549 cfs Total Flow to ENP 7-day Average Daily Flow 549 cfs Meteorological Data Forecasted From 10/23/2021 to 10/29/2021 Value Unit WCA3 7-day Quantitative Precipitation Forecast (QPF) 1.28 in 3AS3WX - 7-day Total Forecasted PET 1.02 in Observed From 10/16/2021 to 10/22/2021 Value Unit WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET 1.02 in TTFF Application 1 Previous week target flow (calculated with forecasted 7-day QPF and PET) MAX cfs 2 Previous week target flow (recalculated with observed rainfall and PET) MAX cfs 3 Adjustment for forecast (2-1) 0 cfs 4 This week calculated target flow with adjustment (3 + 4) MAX cfs 5 This week target flow with adjustment (3 + 4)		, , ,						
Total Flow to ENP 7-day Average Daily Flow 2695 cfs Meteorological Data From 10/23/2021 to 10/29/2021 Value Unit WCA3 7-day Quantitative Precipitation Forecast (QPF) 3AS3WX - 7-day Total Forecasted PET 1.02 in Observed From 10/16/2021 to 10/22/2021 Value Unit WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET 1.02 in TTFF Application 1 Previous week target flow (calculated with forecasted 7-day QPF and PET) MAX cfs 2 Previous week target flow (recalculated with observed rainfall and PET) MAX cfs 3 Adjustment for forecast (2-1) 0 cfs 4 This week calculated target flow 5 This week target flow with adjustment (3 + 4) MAX cfs		, , ,						
Meteorological Data Forecasted From 10/23/2021 to 10/29/2021 Value Unit WCA3 7-day Quantitative Precipitation Forecast (QPF) 3AS3WX - 7-day Total Forecasted PET Discription 10/25/2021 to 10/22/2021 Value Unit WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET TTFF Application 1 Previous week target flow (calculated with forecasted 7-day QPF and PET) Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow with adjustment (3 + 4) From 10/23/2021 to 10/22/2021 Value Unit 1 0.21 in MAX cfs								
Forecasted WCA3 7-day Quantitative Precipitation Forecast (QPF) 3AS3WX - 7-day Total Forecasted PET Described WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET TIFF Application TOPE Previous week target flow (calculated with forecasted 7-day QPF and PET) Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow MAX cfs This week target flow with adjustment (3 + 4)	Total Flow to ENP	7-day Average Daily Flow					2695	cfs
WCA3 7-day Quantitative Precipitation Forecast (QPF) 3AS3WX - 7-day Total Forecasted PET 1.02 in Observed From 10/16/2021 to 10/22/2021 Value Unit WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET 1.02 in TTFF Application 1 Previous week target flow (calculated with forecasted 7-day QPF and PET) 2 Previous week target flow (recalculated with observed rainfall and PET) 3 Adjustment for forecast (2-1) 4 This week calculated target flow 5 This week target flow with adjustment (3 + 4) MAX cfs This week target flow with adjustment (3 + 4)	Meteorological Data							
3AS3WX - 7-day Total Forecasted PET Dobserved	<u>Forecasted</u>		From	10/23/2021	to	10/29/2021	<u>Value</u>	<u>Unit</u>
Observed WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET TTFF Application Previous week target flow (calculated with forecasted 7-day QPF and PET) Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow MAX cfs This week target flow with adjustment (3 + 4)	WCA3 7-day Quantitative Precipitation Foreca	st (QPF)					1.28	in
WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET TTFF Application Previous week target flow (calculated with forecasted 7-day QPF and PET) Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow MAX cfs This week target flow with adjustment (3 + 4) MAX cfs	3AS3WX - 7-day Total Forecasted PET						1.02	in
WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET TTFF Application Previous week target flow (calculated with forecasted 7-day QPF and PET) Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow MAX cfs This week target flow with adjustment (3 + 4) MAX cfs	Observed		From	10/16/2021	to	10/22/2021	Value	Unit
TTFF Application Previous week target flow (calculated with forecasted 7-day QPF and PET) Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow This week target flow with adjustment (3 + 4)		I		10, 10, 1011	•••	10, 11, 1011		
TTFF Application Previous week target flow (calculated with forecasted 7-day QPF and PET) Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow This week target flow with adjustment (3 + 4) TTFF Application MAX cfs MAX cfs MAX cfs MAX cfs	•	•						
Previous week target flow (calculated with forecasted 7-day QPF and PET) Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow This week target flow with adjustment (3 + 4) MAX cfs MAX cfs	SASSWA 7 day rotal observed i El						1.02	
Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow This week target flow with adjustment (3 + 4) MAX cfs MAX cfs		TTFF App	plicati	on				
3 Adjustment for forecast (2-1) 0 cfs 4 This week calculated target flow MAX cfs 5 This week target flow with adjustment (3 + 4) MAX cfs	1 Previous week target flow (calculated with forecasted 7-day QPF and PET)							cfs
This week calculated target flow MAX cfs This week target flow with adjustment (3 + 4) MAX cfs	2 Previous week target flow (recalculated with observed rainfall and PET)							cfs
5 This week target flow with adjustment (3 + 4) MAX cfs	3 Adjustment for forecast (2-1)							cfs
	4 This week calculated target flow							cfs
	5 This week target flow with adjustment (3 + 4)						MAX	cfs
							MAX	cfs

TTFF formula coefficients									
WCA-3A Average Stage (β1)	NESRS2 Stage (β2)	Previous 7-day Average Flow (β3)	Forecast Precipitation (β4)	Forecast PET (β5)	Regulation Schedule Stage (β6)				
318.42	-44.62	0.644	24.32	-96.31	-221.79				

Target flow is distributed from east to west (S-333, S-12D, S-12C, S-12B, and S-12A) to prioritize water deliveries to NESRS first and WSRS second, subject to downstream constraints.

²Actual discharges may vary from target discharges because of changing hydrologic conditions.



 $^{^{1}}$ S-333 + S-333N - S-334 becomes zero if the sum of S-333 and S-333N is less than S-334 flow. Calculation is done daily.